- 11. A method of manufacturing a lateral double-diffused MOS transistor, comprising:
 - providing a drift region having a first conductivity;
 - providing a body having a second conductivity, said body being disposed in the drift region and having a channel thereon; and
 - providing a source region having the first conductivity, said source region being disposed within said body and having an upper region surrounded by a first impurity region of the first conductivity.
- 12. The method of claim 11, wherein the first impurity region has a lower impurity concentration than that of said source region.
 - 13. The method of claim 11, further comprising:
 - providing a second impurity region having the first conductivity, said second impurity region being disposed between the channel and an extended drain region.

- 14. The method of claim 13, wherein said second impurity region has an impurity concentration lower than that of said drift region.
- **15**. The method of claim 11, wherein the first conductivity is n-type and wherein the second conductivity is p-type.
- **16**. The method of claim 11, wherein said drift region is formed by a semiconductor substrate having the first conductivity.
 - 17. The method of claim 11, further comprising:
 - providing an extended drain region having the first conductivity, said extended drain region being disposed in said drift region and separated from said body;
 - providing a drain region having the first conductivity, said drain region being disposed in said extended drain region; and
 - providing a gate isolating layer and a gate conducting layer sequentially formed atop the channel occurring in said body.

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